Application No. 09/590,406

Docket No.17541

A solder bonded assembly comprising:

- a first substrate comprising a first solder pad;
- a second substrate comprising a second solder pad;
- a substantially non-deformable dielectric core provided with a solderable metal layer and disposed between said first and second solder pads; and
- a solder region covering at least a portion of each of

 (a) said first solder pad, (b) said second solder pad and (c)

 said solderable metal layer.

Please add new claims 24-29 as shown below.

- 24. A solder-coated article comprising:
- a dielectric core having a largest dimension ranging from 1 to 1000 microns;
 - a solderable metal layer over said core; and
- a solder layer over said metal layer; wherein said dielectric core has a melting temperature higher than said solder layer.
 - 25. A modified substrate comprising:
 - a substrate;
 - a metalized pad on said substrate; and
- bump feature on said metalized pad, said bump feature comprising a dielectric core; a solderable metal layer over said



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core; and a solder region contacting at least a portion of said solderable metal layer and at least a portion of said metalized pad;

wherein said dielectric core has a melting temperature higher than said solderable metal layer.

- 26. A solder bonded assembly comprising:
 - a first substrate comprising a first solder pad;
 - a second substrate comprising a second solder pad;
- a dielectric core provided with a solderable metal layer and disposed between said first and second solder pads; and
- a solder region covering at least a portion of each of

 (a) said first solder pad, (b) said second solder pad and (c)

 said solderable metal layer;

wherein said dielectric core has a melting temperature higher than said solderable metal layer.

- 27. The solder-coated article of claim 1, wherein said solderable metal layer has a thickness of 0.1 to 1 micron.
- 28. The modified substrate of claim 9, wherein said solderable metal layer has a thickness of 0.1 to 1 micron.
- 29. The solder bonded assembly of claim 16, wherein said solderable metal layer has a thickness of 0.1 to 1 micron.